PORTABLE PRECAST CONCRETE MEDIAN BARRIER

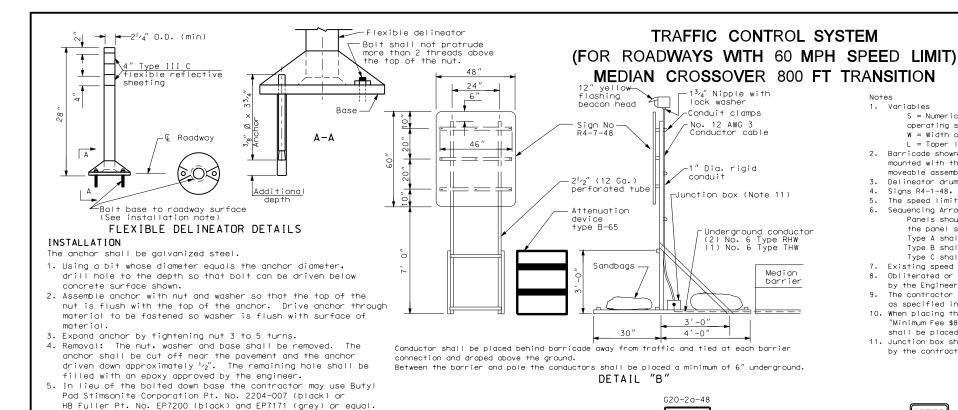
ATTENUATION DEVICES
1 Each - Type B-60

(White) 397 Each (Yellow) 163 Each

RAISED PAVEMENT MARKERS

OBLITERATION OF PAVEMENT MARKING 523 SF

See precast concrete median barrier table



- © Existing driving lane

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R2-1-48

Post Mounted

(See note # 5

- 1. Variables
- S = Numerical value of, posted speed limit, or off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph.
 - W = Width of offset in feet. L = Taper length in feet. Speeds 40 mph or less $L=WS^2/60$. Speeds 45 mph or greater L=WS.
- 2. Barricade shown to be placed on roadway shall be on a moveable assembly. Sign to be mounted on barricades shall be
- mounted with the sign bottom on the top of the top barricade bar. sign shown to be placed on the roadway shall be placed on moveable assemblies.
- Delineator drums used for tapering traffic and for tangents shall be spaced as shown.

TYPE III BARRICADES 3 Each

FLASHING BEACON 1 Each

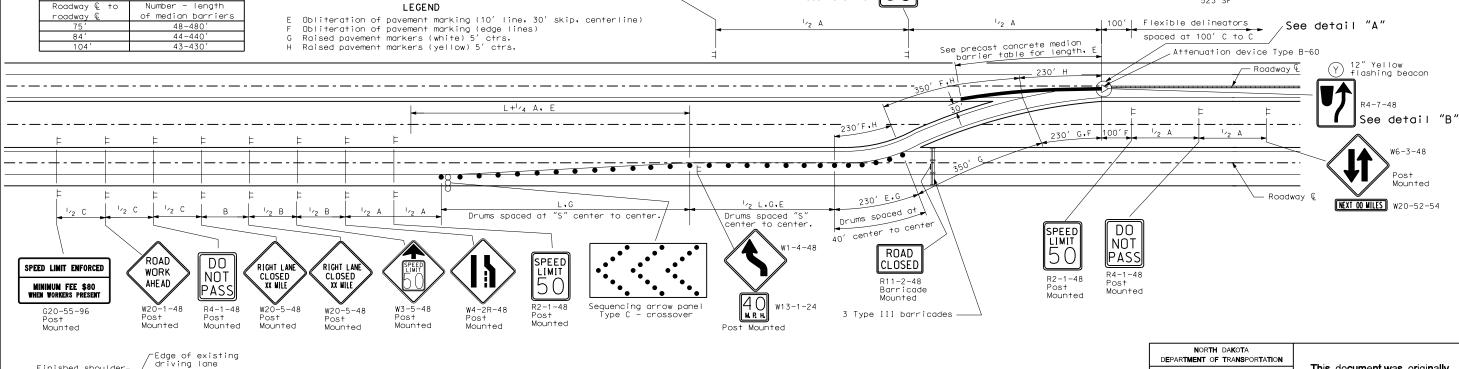
DELINEATOR DRUMS 25 Each

1 Each

- Signs R4-1-48, W6-3-48 and W20-52-54 shall be installed at one mile increments and after each interchange
- The speed limit sign shall be placed only if the crossover is over 1 mile from an interchange exit ramp.
- Sequencing Arrow Panels Panels should normally be placed at the beginning of the taper. Where shoulder width does not provide sufficient room.
 - the panel should be moved closer to the work area so that it can be placed on the roadway surface. Type A shall be used on roadways with slow moving traffic speeds and low volume (25 mph and 750 ADT or less)
 - Type B shall be used on roadways with moderate traffic speeds and volumes (40 mph and 5000 ADT or less)
 - Type C shall be used on roadways with high traffic speeds and volumes (over 40 mph and 5000 ADT)
- 7. Existing speed limit signs within a reduced speed zone shall be covered.

SEQUENCING ARROW PANEL TYPE C-CROSSOVER

- 8. Obliterated or covered pavement marking shall be paid for as Obliteration of Pavement Marking. The covering shall be approved
- The contractor has the option of using portable sign supports in lieu of post mounted sign as shown on the standard drawings as specified in section 704.03 C.
- 10. When placing the traffic control devices, speed reductions will be necessary. These reduced speed areas shall have the "Minimum Fee \$80" sign placed below the speed limit sign. The "Work Zone Speed Limit Enforced" sign in advance of the project shall be placed at the time the traffic control devices are installed.
- 11. Junction box shall be attached to skid or vertical brace assembly. Junction box shall be weatherproof. Size to be determined by the contractor.



FND

ROAD WORK

Post Mounted

ADVANCE WARNING SIGN SPACING Distance Between Signs KEY Road Type Min. (ft) Type I barricade Urban - Low Speed (30 mph or less) Type II barricade Urban - Low Speed (over 30 to 40 mph) 280 280 280 Type III barricade _ Flagger Urban - High Speed (over 40 mph to 50 mph) 360 Rural - High Speed (over 50 mph to 65 mph) 720 360 Sign 720 ∞ Sequencing arrow pane 720 Urban Expressway and Freeway Delineator drum Type A delineator or vertical panels back to back 850 1350 2200 55 mph +o 60 mph) Rural Expressway and Freeway (70 mph to 75 mph) Cones 1000 1500 2640 Interstate/4-Lane Divided (Maintenance and Surveying) 750 1000

DEPARTMENT OF TRANSPORTATION 0**7-25-**0**3** REVISIONS DATE CHANGE 04-01-04
Revised fee sign.
warning sign spacing
A note 10
09-07-04
Revised attenuation
device type
09-27-04 Revised sign sequence 12-01-04 PE Stamp added 06-29-05 Revised W4-2, Replace R2-5a with W3-5, Rev. Adv. Warning Table

This document was originally issued and sealed by MARK S. GAYDOS Registration Number PE- 4518, on 10/12/05 and the original

document is stored at the North Dakota Department of Transportation

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Finished shoulder

-€ of median

Edge of temporary-

Edge of temporary

driving lane

Precast concrete

median barrier

-Yellow edge line

-Edge of existing driving lane

DETAIL "A"

-Existing finished

∠Yellow edge line ∠Keep right symbol sign

_Attenuation devices

~ ∆dditional widenina

PRECAST CONCRETE MEDIAN BARRIER TABLE